

Serial No.: 10/511025_C

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(CS) field
NEWS 4 AUG 24 ENCOMPLIT/ENCOMPLIT2 reloaded and enhanced
NEWS 5 AUG 24 CA/CAPLUS enhanced with legal status information for
U.S. patents
NEWS 6 SEP 09 50 Millionth Unique Chemical Substance Recorded in
CAS REGISTRY
NEWS 7 SEP 11 WPIDS, WPINDEX, and WPIX now include Japanese FTERM
thesaurus
NEWS 8 OCT 21 Derwent World Patents Index Coverage of Indian and
Taiwanese Content Expanded
NEWS 9 OCT 21 Derwent World Patents Index enhanced with human
translated claims for Chinese Applications and
Utility Models
NEWS 10 OCT 27 Free display of legal status information in CA/CAPLUS,
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NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,
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FILE 'HOME' ENTERED AT 14:37:50 ON 30 OCT 2009

=> file caplus, agricola

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FILE 'AGRICOLA' ENTERED AT 14:39:02 ON 30 OCT 2009

=> s ozonization (S) (seed (2w) oil#)
L1 0 OZONIZATION (S) (SEED (2W) OIL#)

=> s ozonization
L2 22502 OZONIZATION

=> s l2 and (vegetable (2w) oil)
L3 41 L2 AND (VEGETABLE (2W) OIL)

=> s l3 (S) hydroperoxide
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L7 (S) HYDROPERO'
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L8 (S) HYDROPERO'
L4 4 L3 (S) HYDROPEROXIDE

=> s l3 and hydroperoxide
L5 4 L3 AND HYDROPEROXIDE

=> d l5 1-4 ibib abs

L5 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2007:742038 CAPLUS
DOCUMENT NUMBER: 147:363854
TITLE: Characterization by NMR of ozonized methyl linoleate
AUTHOR(S): Diaz, Maritza F.; Gavin, Jose A.
CORPORATE SOURCE: Department of Ozonized Substances, Ozone Research
Center, National Center for Scientific Research,
Havana, Cuba
SOURCE: Journal of the Brazilian Chemical Society (2007),
18(3), 513-518
CODEN: JOCSET; ISSN: 0103-5053
PUBLISHER: Sociedade Brasileira de Quimica
DOCUMENT TYPE: Journal
LANGUAGE: English

AB In the present study ozonized Me linoleate with peroxide index of 1,800 mmol-equiv kg⁻¹ was chemical characterized. Ozonation of Me linoleate produced hydroperoxides, ozonides and aldehydes which were identified by ¹H and ¹³C NMR 2-dimensional. The standard Me linoleate and ozonized Me linoleate shown very similar ¹H NMR spectra except for the signals at δ 9.7 and δ 9.6 that correspond to aldehydic hydrogen, δ 5.7 and δ 5.5 (olefinic signals from hydroperoxides) and δ 5.2 ppm (multiplet from ozonides methynic hydrogen). Other resonance assignments are based on the connectivities provided by the hydrogen scalar coupling consts. Thus, NMR spectroscopy can provide valuable information about the amount of formed

oxygenated compds. in the ozonized Me linoleate to use it to follow up
ozone therapy and chemical of ozonized vegetable oil.

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)
REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:207272 CAPLUS
DOCUMENT NUMBER: 145:26861
TITLE: Study of Ozonated Sunflower Oil Using 1H NMR and
Microbiological Analysis
AUTHOR(S): Diaz, Maritza; Gavin, Jose; Gomez, Magali; Curtielles,
Vicente; Hernandez, Frank
CORPORATE SOURCE: Department of Ozonized Substances, Ozone Research
Center, National Center for Scientific Research,
Havana, Cuba
SOURCE: Ozone: Science & Engineering (2006), 28(1), 59-63
CODEN: OZSEDS; ISSN: 0191-9512
PUBLISHER: Taylor & Francis, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Prior studies have proven that ozonized vegetable oils
present a high germicidal power. Ozonization of sunflower oil
at different applied ozone dosages was carried out and peroxide and
aldehydes indexes along with antimicrobial activity were determined. The
reaction products were identified using 1H NMR. The principal signals
intensity values were used for following the reaction course between ozone
and sunflower oil. The reaction was following up to peroxide index values
of 1202 mmol-equi/Kg. The intensities of olefinic proton signals
decreased with the gradual increase in ozone concentration but without
disappearing completely. The Criegee ozonides obtained at 107.1 mg/g
ozone doses were .apprx.3.9-fold higher than that at beginning of the
reaction. The aldehyde protons were observed as a weak intensity signal in
all the spectra. The signals belonging to olefinic protons from
hydroperoxides appeared weak and increased with the increase in
ozone doses. Signals from other oxygenated groups were assigned. The
highest action spectrum of antimicrobial activity was obtained with the
higher peroxide index. It was concluded that at higher applied ozone
doses, the higher the antimicrobial activity potential of ozonized
sunflower oil.

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)
REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:640083 CAPLUS
DOCUMENT NUMBER: 143:410533
TITLE: Spectroscopic characterization of ozonated sunflower
oil
AUTHOR(S): Diaz, Maritza F.; Sazatornil, Jose A. Gavin; Ledea,
Oscar; Hernandez, Frank; Alaiz, Manuel; Garces, Rafael
CORPORATE SOURCE: Department of Ozonized Substances, Ozone Research
Center, National Center for Scientific Research,
Havana, Cuba
SOURCE: Ozone: Science & Engineering (2005), 27(3), 247-253

CODEN: OZSEDS; ISSN: 0191-9512
PUBLISHER: Taylor & Francis, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Ozonization reactions are very important in vegetable oil chemical since their ozonization products are involved in antimicrobial effect in therapeutical uses for several microbiol. etiol. diseases. Information on the spectroscopic characterization of the products generated by ozonolysis of sunflower oil is limited. In the present study ozonized sunflower oil with 650 mmol-equiv/kg of peroxide index is chemical characterized. Ozonization of sunflower oil produced ozonides, aldehydes and hydroperoxides which were identified by ^1H , ^{13}C and two-dimensional ^1H NMR. The virgin sunflower oil and ozonized sunflower oil show very similar ^1H NMR spectra except for the resonances at $\delta = 9.74$ and $\delta = 9.63$ ppm that correspond to both triplet from aldehydic protons, $\delta = 5.6$ ppm (olefinic signal from hydroperoxides), and $\delta = 5.15$ ppm (multiplet from ozonides methylic protons). Other resonance assignments are based on the connectivities provided by the proton scalar coupling consts. These are the following: $\delta = 3.15$ ppm (doublet from methylenic group in α position respect to olefinic proton), $\delta = 2.45$ ppm (multiplet from methylenic group allylic to ozonides methynic protons) and $\delta = 1.62$ ppm (multiplet methylenic protons in β position respect to ozonides methynic protons). From the ^{13}C NMR and ^1H - ^{13}C two-dimensional spectrum of the ozonized sunflower oil, the presence of ozonides was confirmed by the signals $\delta = 103.43$ and $\delta = 103.49$ ppm, resp. The others new signals found in $\delta = 42.5$ and $\delta = 42.76$ ppm confirm the presence of methylenic carbons from hydroperoxides and ozonides. These results indicate that NMR Spectroscopy can provide valuable information about the amount of reaction compds. of ozonized vegetable oil. From the chemical structural elucidation of ozonated sunflower oils, relevant biochem. and chemical information can be achieved.

OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2003:818513 CAPLUS

DOCUMENT NUMBER: 139:312467

TITLE: Method for obtaining ozonized oils and vegetable fats and use of said products for pharmaceutical and cosmetic purposes

INVENTOR(S): Moleiro Mirabal, Jesus; Menendez Cepero, Silvia Amparo; Ledea Lozano, Oscar Ernesto; Diaz Gomez, Maritza Felisa; Diaz Rubi, Wilfredo Felix; Fernandez Garcia, Lidia Asela; Lezcano Lastre, Irene de las Mercedes

PATENT ASSIGNEE(S): Centro Nacional de Investigaciones Cientificas (CNIC), Cuba

SOURCE: PCT Int. Appl., 34 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Spanish

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003085072	A1	20031016	WO 2003-CU3	20030402
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003218602	A1	20031020	AU 2003-218602	20030402
EP 1497401	A1	20050119	EP 2003-711810	20030402
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003009246	A	20050209	BR 2003-9246	20030402
MX 2004009712	A	20050714	MX 2004-9712	20041005
ZA 2004008856	A	20051013	ZA 2004-8856	20041102
US 20060074129	A1	20060406	US 2005-511025	20050428
PRIORITY APPLN. INFO.:			CU 2002-71	A 20020408
			WO 2003-CU3	W 20030402

AB The oils are produced by ozonization of vegetable oils and fats in a bubble reactor using ozone, O₃, or their mixts. in liquid phase at 30-50° to form the corresponding α -hydroxy-hydroperoxides. The vegetable oils include sunflower, cacao, olive, soybean, jojoba, coconut palm, canola, corn, sesame, thistle, linseed, castor, rice, sugarcane, pumpkin, peanut, and almond oils. The produces are suitable for use in chemical, pharmaceutical, and cosmetics industry, and possess bactericidal, virucidal, parasitocidal and fungicidal activity and do not show toxicol. or adverse reactions. The ozonized oils can be used in treatment of diseases, in skin revitalizing cosmetics formulations.

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 14:37:50 ON 30 OCT 2009)

FILE 'CAPLUS, AGRICOLA' ENTERED AT 14:39:02 ON 30 OCT 2009

L1 0 S OZONIZATION (S) (SEED (2W) OIL#)

L2 22502 S OZONIZATION

L3 41 S L2 AND (VEGETABLE (2W) OIL)

L4 4 S L3 (S) HYDROPEROXIDE

L5 4 S L3 AND HYDROPEROXIDE

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LOGOFF? (Y)/N/HOLD:y

STN INTERNATIONAL LOGOFF AT 14:44:49 ON 30 OCT 2009

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